

**Notice of Allowability**

Application No.

10/661,876

Examiner

Melissa J Koval

Applicant(s)

EGUCHI, MASA HARU

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the communication of September 11, 2002.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 11 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

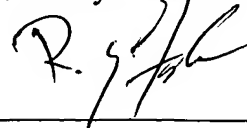
5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Rodney Fuller  
Primary Examiner



***Allowable Subject Matter***

Claims 1-15 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art neither shows nor suggests a projection type image display apparatus comprising all of the elements of claim 1 and in particular:

"wherein the optical axis of the projection optical system is shifted with respect to a reference axis, the reference axis leading from the center of the original image formed on the image forming element to the center of the projected image, and

the photoreception sensor receives light from a detection area which is proximate to and includes the position of the optical axis the projection optical system on the projection surface."

The prior art neither shows nor suggests a projection type image display apparatus comprising all of the elements of claim 3 and in particular:

"wherein the photoreception sensor receives light from a detection area including a boundary between an image projection area and a non-image area on the projection surface."

The prior art neither shows nor suggests a projection type image display apparatus comprising all of the elements of claim 8 and in particular:

"wherein the photoreception sensor comprises a pair of line sensors arranged apart in a base line length direction,

the detection area of the photoreception sensor includes one side of the projected image, and the base line length direction is substantially orthogonal to the one side.”

The prior art neither shows nor suggests a projection type image display apparatus comprising all of the elements of claim 9 and in particular:

“wherein the photoreception sensor comprises a pair of line sensors arranged apart in a base line length direction,

the optical axis of the projection optical system is shifted with respect to a reference axis, the reference axis leading from a center of the original image formed on the image forming element to the center of the projected image,

the detection area of the photoreception sensor includes a side closest to the optical axis of the projection optical system among circumferential sides of the projected image, and

the base line length direction of the pair of line sensors is substantially orthogonal the side closest the optical axis of the projection optical system.”

The prior art neither shows nor suggests a projection type image display apparatus comprising all of the elements of claim 11 and in particular:

“the optical axis of the projection optical system being inclined with respect to the projection direction of the image; and

a photoreception sensor which receives light from the projection surface in a direction substantially parallel to the optical axis of the projection optical system.”

The prior art neither shows nor suggests a projection type image display apparatus comprising all of the elements of claim 15 and in particular:

“wherein a first angle formed by the photoreception direction of the photoreception sensor with respect to the optical axis of the projection optical system is smaller than a second angle formed by the photoreception direction of the photoreception sensor with respect to the projection direction of the image.”

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Muramatsu U.S. Patent Application Publication US 2004/0046943 A1 teaches a projection type display apparatus.

Kawashima et al. U.S. Patent 6,592,228 B1 teaches a projector comprising a microcomputer for controlling zoom and focus adjustments utilizing pattern generation and calculation means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J Koval whose telephone number is (571) 272-2121. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571)272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJK

Rodney Fuller  
Primary Examiner

A handwritten signature in black ink, appearing to read 'R. Fuller', is written over the printed name of the Primary Examiner.